Assignment 7

1. Write a update, delete trigger on clientmstr table. The System should keep track of the records that ARE BEING updated or deleted. The old value of updated or deleted records should be added in audit\_trade table. (separate implementation using both row and statement triggers)

SQL> create table client\_mstr(

cl\_id varchar(3),

client\_name varchar(5),

client\_doc varchar(10),

constraint pk\_cl\_id primary key(cl\_id));

Table created.

SQL> select \* from client\_mstr;

CL\_ CLIEN CLIENT\_DOC

201 abc Bonafied

202 xyz Bonafied

203 pqr Bonafied

SQL> create table audit\_trade (

chnged\_col\_name varchar(10),

status varchar(10));

Table created.

SQL> Create or replace trigger t2 before update or delete on client\_mstr for each row

declare

op varchar(10);

begin

if updating then

op:='updated';

end if;

if deleting then

op:='deleted';

end if;

If :old.client\_name <> :new.client\_name then

insert into audit\_trade values (:old.client\_name,op);

end if;

If :old.client\_doc <> :new.client\_doc then

insert into audit\_trade values (:old.client\_doc,op);

end if;

If :old.cl\_id <> :new.cl\_id then

insert into audit\_trade values (:old.cl\_id,op);

end if;

end;

/

Trigger created.

SQL> update client\_mstr set client\_name = 'radha' where cl\_id = '201';

1 row updated.

SQL> select \* from audit\_trade;

CHNGED\_COL STATUS

abc updated

2. Write a before trigger for Insert, update event considering following

requirement:

Emp(e\_no, e\_name, salary)

I) Trigger action should be initiated when salary is tried to be inserted is less

than Rs. 50,000/-

II) Trigger action should be initiated when salary is tried to be updated for

value less than Rs. 50,000/-

Action should be rejection of update or Insert operation by displaying appropriate error message. Also the new values expected to be inserted will be stored in new table Tracking(e\_no, salary).

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create or replace trigger t4 before insert or update on emp for each row

declare

op varchar(10);

begin

If inserting then

op:='insert';

if (:new.salary < 50000) then

insert into tracking values (:new.salary,op);

raise\_application\_error(20515,'salary should be greater than 50000');

end if;

end if;

if updating then

op:='update';

end if;

end;

create or replace trigger sal\_chk before insert or update of salary on emp for each row

begin

if inserting and (:NEW.salary < 50000) then

insert into tracking(:new.e\_no,:new.salary);

raise application\_error(20515,'Salary Should be Greater than 50000');

end if;

if updating and (:NEW.salary < 50000) then

insert into tracking(:new.e\_no,:new.salary);

raise application\_error(20515,'Salary Should be Greater than 50000');

end if;

end;